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Claims

- add C1
1. A method of assembling a motor shaft with a motor component assembly, the method comprising the steps of:  
upsetting a portion of the motor shaft;  
inserting the motor component assembly, comprising a keyed spacer and a motor component, onto the shaft; and  
pressing an extension onto the shaft into abutment with the motor component assembly.
  2. The method of claim 1, wherein the motor component assembly further comprises a keyed washer disposed between the motor component and the extension.
  3. The method of claim 1, wherein the extension comprises a tube that extends past the end of the motor shaft when a first end of the tube is in abutment with the motor component assembly.
  4. The method of claim 3, wherein the tube comprises aluminum.
  5. The method of claim 3, wherein the tube comprises fiberglass.

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6. The method of claim 3, further comprising the step of pressing a shaft extension into a second end of the tube.

7. The method of claim 1, wherein the extension comprises a metal shaft comprising a first bore to accommodate the motor shaft.

8. The method of claim 7, wherein the extension comprises a second bore.

9. The method of claim 1, wherein the motor component comprises an impeller.

*Sub 10*  
10. A method of assembling a motor shaft with a motor component, the method comprising the steps of:

fitting a first end of a shaft extension into an end of the motor shaft;  
tightening a retainer onto the motor shaft; and  
installing a second end of the shaft extension into a lower assembly.

11. The method of claim 10, wherein the shaft extension comprises a hexagonal circumferential geometry.

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12. The method of claim 10, wherein the shaft extension comprises a square circumferential geometry.

13. The method of claim 10, wherein said retainer comprises a hexagonal threaded nut.

14. The method of claim 10, wherein the lower assembly comprises a pump impeller.

15. The method of claim 10, wherein the lower assembly comprises a bearing.

16. The method of claim 15, wherein the bearing assembly comprises a powdered metal bearing.

17. The method of claim 15, wherein the bearing assembly comprises a roller ball bearing.

~~add 3~~